CONTENTS TO VOLUME 54

Computational physics	*Issue*	*Page*
Decker, K. Numerical investigation of a coarse-to-fine transormation for multigrid Monte Carlo updating	1	1
Biddulph, P. and G. Thompson Improved modelling of independent parton hadronization	1	13
Dubey, I.P. and S.K. Upadhyay A trivariate interpolation method developed on the basis of Akima's bivariate interpolation procedure	1	23
Bhowmick, S., R. Bhattacharya and D. Roy Iterations of convergence accelerating nonlinear transforms	1	31
Mościński, M., J. Kitowski, Z.A. Rycerz and P.W.M. Jacobs A vectorized algorithm on the ETA 10-P for molecular dynamics simulation of large number of particles confined in a long cylinder	1	47
Burkitt, A. N. and D.W. Heermann Parallelization of a cluster algorithm	2&3	201
Fernandez, J.E. Monte Carlo computer simulation of the XRF intensity dependence on the propagation plane inclination	2&3	211
Butler, J.W. A proposed new approach to the expansion of mathematical functions	2&3	221
Colangelo, P., L. Cosmai and E. Scrimieri Computer simulation of gauge theories on a lattice with improved rotational symmetry	2&3	235
Migneron, R., K.S.S. Narayanan and H. Rasmussen Numerical inversion of moments	2&3	239
Gorecki, J. and J. Gryko Molecular dynamics simulation of a chemical reaction	2&3	245
Rosato, V., G. Maino and A. Ventura A molecular dynamics model for the study of helium on transition metals	2&3	251
Gomes, M.A.F. and G.L. Vasconcelos Fragmentation dynamics in fractal and Euclidean systems	2&3	257
Tran, T.M. and J.S. Wurtele TDA – a three-dimensional axisymmetric code for free-electron-laser (FEL) simulation	2&3	263

Computer programs in physics

	Issue	*Page*
Meyer, J., W.-D. Sepp, B. Fricke and A. Rosén Computation of relativistic symmetry orbitals for finite double point groups	1	55
Knowles, P.J. and N.C. Handy A determinant based full configuration interaction program	1	75
Talman, J.D. A program to compute variationally optimized effective atomic potentials	1	85
Shadwick, B.A., J.D. Talman and M.R. Norman A program to compute variationally optimized relativistic atomic potentials	1	95
Carter, P.A. A fast vectorized program for the Cyber 205 to calculate the partition function of the 3-D Ising model	1	103
Kronfeld, A.S., M.L. Laursen, G. Schierholz, C. Schleiermacher and U.-J. Wiese A vectorized code for the computation of the topological charge in SU(2) lattice gauge theory	1	109
Shmakov, S.Yu., V.V. Uzhinskii and A.M. Zadorozhny Diagen-generator of inelastic nucleus–nucleus interaction diagrams	1	125
Rous, P.J. and J.B. Pendry Tensor LEED I: a technique for high speed surface structure determination by low energy electron diffraction. TLEED1	1	137
Rous, P.J. and J.B. Pendry Tensor LEED II: a technique for high speed surface structure determination by low energy electron diffraction. TLEED2	1	157
Schastok, J., H. Gleixner, M. Soffel, H. Ruder and M. Schneider The ephemeris program GLE2000	1	167
Allouche, A. and G. Pouzard Computer simulation of FT-NMR multiple pulse experiment	1	171
Martinec, Z. Program to calculate the spectral harmonic expansion coeffecients of the two scalar fields product	1	177
Mirin, A.A., D.R. Martin and N.J. O'Neill TUBE88 – a code which computes magnetic field lines	1	183
Moriarty, K.J.M., E. Myers and C. Rebbi A vector code for the numerical simulation of cosmic strings and flux vortices in superconductors on the ETA-10	2&3	273
Harper, D. Vector 33: a REDUCE program for vector algebra and calculus in orthogonal curvilinear coordinates	2&3	295
Reid, J.S. Synchrotron radiation flux at experimental stations	2&3	307

Computer programs in physics (continued)	*Issue*	*Page*
Yannouleas, C. and J.M. Pacheco Algebraic manipulation of the states associated with the U(5) ⊃ O(5) ⊃ O(3) chain of groups: orthonormalization and matrix elements	2&3	315
Hsiao, M.-Y., K.A. Werley and K.M. Ling CRFX, a one-and-a-quarter-dimensional transport code for field-reversed configuration studies	2&3	329
Hartmann, U. and E.D. Davis *epic*GRASS – symbolic calculations with anticommuting variables	2&3	353
Zlokazov, V.B. GFIT – generalized quadratic approximation of functions under constraints	2&3	371
Chilingarian, A.A. Statistical decisions uncer nonparametric a priory information	2&3	381
Smith, K. and A.H. Glasser Data base of cross sections and reaction rates for hydrogen ion sources	2&3	391
Fernández-Niello, J., C.H. Dasso and S. Landowne CCDEF – a simplified coupled-channel code for fusion cross sections including static nuclear deformations	2&3	409